

References to SEIS for cumulative effects of deep Class V disposal wells

**Sections of the Nuclear Regulatory Commission's Dewey Burdock Supplemental Environmental Impact Statement Containing Information Related to Evaluation of Impacts from the Class V Deep Disposal Wells**

The NRC Dewey Burdock SEIS may be viewed and downloaded at these web sites:

SEIS Volume 1: [ [HYPERLINK "http://pbadupws.nrc.gov/docs/ML1231/ML12312A039.pdf"](http://pbadupws.nrc.gov/docs/ML1231/ML12312A039.pdf) ]

SEIS Volume 2: [ [HYPERLINK "http://pbadupws.nrc.gov/docs/ML1231/ML12312A040.pdf"](http://pbadupws.nrc.gov/docs/ML1231/ML12312A040.pdf) ]

**Section 4: ENVIRONMENTAL IMPACTS OF CONSTRUCTION, OPERATIONS, AQUIFER RESTORATION, AND DECOMMISSIONING ACTIVITIES AND MITIGATIVE ACTIONS**

**4.2 Land Use Impacts**

**4.2.1 Proposed Action (Alternative 1)**

**4.2.1.1 Disposal Via Class V Injection Wells**

**4.2.1.1.1 Construction Impacts**

**4.2.1.1.2 Operations Impacts**

**4.2.1.1.3 Aquifer Restoration Impacts**

**4.2.1.1.4 Decommissioning Impacts**

Table 4.2-1 Breakdown of Land Disturbance for the Class V Injection Well and Land Application Disposal Options at the Proposed Dewey-Burdock ISR

**Table 4.2-1. Breakdown of Land Disturbance for the Class V Injection Well and Land Application Disposal Options at the Proposed Dewey-Burdock ISR Project**

<b>Facilities/Infrastructure</b>	<b>Surface Disturbance</b>
<b>Disposal Via Class V Injection Wells</b>	
Site Buildings	9.7 ha [24 ac]
Trunkline Installation	10.1 ha [25 ac]
Access Roads	8.5 ha [21 ac]
Wellfields	56.7 ha [140 ac]
Impoundments (ponds)	13.4 ha [33 ac]
<b>Total</b>	<b>98.3 ha [243 ac]</b>
<b>Disposal Via Land Application</b>	
Site Buildings	9.7 ha [24 ac]
Trunkline Installation	10.1 ha [25 ac]
Access Roads	8.5 ha [21 ac]
Wellfields	56.7 ha [140 ac]
Impoundments (ponds)	55.0 ha [136 ac]
Irrigation Areas	425.7 ha [1,052 ac]
<b>Total</b>	<b>565.7 ha [1,398 ac]</b>

Source: Powertech (2010a)

Table 4.2-2 Significance of Environmental Land Use Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

**Table 4.2-2. Significance of Environmental Land Use Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	MODERATE before vegetation reestablished and then SMALL after vegetation is established	MODERATE before vegetation reestablished and then SMALL after vegetation is established	MODERATE before vegetation reestablished and then SMALL after vegetation is established
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.3 Transportation Impacts

##### 4.3.1 Proposed Action (Alternative 1)

##### 4.3.1.1 Disposal Via Class V Injection Wells

##### 4.3.1.1.1 Construction Impacts

##### 4.3.1.1.2 Operations Impacts

##### 4.3.1.1.3 Aquifer Restoration Impacts

##### 4.3.1.1.4 Decommissioning Impacts

**Table 4.3-5 Significance of Transportation Environmental Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

**Table 4.3-5. Significance of Transportation Environmental Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	MODERATE	MODERATE	MODERATE
Operations	MODERATE	MODERATE	MODERATE
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL	SMALL	SMALL
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.4 Geology and Soils Impact

##### 4.4.1 Proposed Action (Alternative 1)

##### 4.4.1.1 Disposal Via Class Injection Wells

##### 4.4.1.1.1 Construction Impacts

##### 4.4.1.1.2 Operations Impacts

##### 4.4.1.1.3 Aquifer Restoration Impacts

##### 4.4.1.1.4 Decommissioning Impacts

**Table 4.4-1 Significance of Geology and Soils Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

**Table 4.4-1. Significance of Geology and Soils Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL	SMALL	SMALL
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.5 Water Resources Impacts

##### 4.5.1 Surface Water and Wetlands Impacts

###### 4.5.1.1 Proposed Action (Alternative 1)

###### 4.5.1.1.1 Disposal Via Class V Injection Wells

###### 4.5.1.1.1.1 Construction Impacts

###### 4.5.1.1.1.2 Operations Impacts .

###### 4.5.1.1.1.3 Aquifer Restoration Impacts

###### 4.5.1.1.1.4 Decommissioning Impacts

**Table 4.5-1 Significance of Environmental Surface Water and Wetland Impacts for the Proposed Liquid Waste Disposal for Each Phase of the Proposed Dewey-Burdock ISR Project**

**Table 4.5-1. Significance of Environmental Surface Water and Wetland Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL	SMALL	SMALL
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.5.2 Groundwater Impacts

##### 4.5.2.1 Proposed Action (Alternative 1)

###### 4.5.2.1.1 Disposal Via Class V Injection Wells

###### 4.5.2.1.1.2 Operations Impacts

###### 4.5.2.1.1.2.1 Shallow (Near-Surface)Aquifers

###### 4.5.2.1.1.2.2 Operations Impacts to Production and Surrounding Aquifers

###### 4.5.2.1.1.2.3 Operations Impacts to Deep Aquifers Below the Production Aquifers

###### 4.5.2.1.1.3 Aquifer Restoration Impacts

###### 4.5.2.1.1.4 Decommissioning Impacts

**Table 4.5-2 Significance of Environmental Groundwater Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

**Table 4.5-2. Significance of Environmental Groundwater Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL to MODERATE If groundwater pumping causes mobilization and migration of radiological and hazardous contaminants from abandoned open pit mines into Fall River aquifer, impacts will be MODERATE	SMALL to MODERATE If groundwater pumping causes mobilization and migration of radiological and hazardous contaminants from abandoned open pit mines into Fall River aquifer, impacts will be MODERATE	SMALL to MODERATE If groundwater pumping causes mobilization and migration of radiological and hazardous contaminants from abandoned open pit mines into Fall River aquifer, impacts will be MODERATE
Decommissioning	SMALL	SMALL	SMALL
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.6 Ecological Resources Impacts

##### 4.6.1 Proposed Action (Alternative 1)

##### 4.6.1.1 Disposal Via Class V Injection Wells

##### 4.6.1.1.1 Construction Impacts

##### 4.6.1.1.1.1 Construction Impacts on Terrestrial Ecology

##### 4.6.1.1.1.1.1 Construction Impacts on Vegetation

##### 4.6.1.1.1.1.2 Construction Impacts on Wildlife

##### 4.6.1.1.1.1.3 Aquatic Ecology

##### 4.6.1.1.1.1.4 Threatened and Endangered Species

##### 4.6.1.1.2 Operations Impacts

##### 4.6.1.1.3 Aquifer Restoration Impacts

##### 4.6.1.1.4 Decommissioning Impacts

**Table 4.6-1 Disturbed Land by Vegetation Type for Dewey-Burdock Deep Class V Injection Well Disposal Option**

Table 4.6-1. Disturbed Land by Vegetation Type for Dewey-Burdock Deep Class V Injection Well Disposal Option

Activity	Vegetation Community (Hectares [acres])							Total Disturbed Area Hectares [acres]
	Big Sage-Brush Shrub-Land	Cotton-wood Gallery	Grease-wood Shrub-land	Mine Pit	Ponderosa Pine Wood-land	Silver Sage-Brush Shrub-land	Upland Grass-land	
Site Facilities	0.8 [2]	0	3.2 [8]	0	0.4 [1]	0	5.7 [14]	9.7 [24]
Trunklines	2.4 [6]	0	2.4 [6]	0	1.2 [3]	0.8 [2]	3.2 [8]	10.1 [25]
Access Roads	2.0 [5]	0	2.0 [5]	0.4 [1]	0.8 [2]	0.4 [1]	2.4 [6]	8.5 [21]
Well Fields	8.5 [21]	0	18.2 [45]	2.0 [5]	8.5 [21]	4.4 [11]	15.0 [37]	56.6 [140]
Impoundments	0	0	4.1 [10]	0	0	0	9.3 [23]	13.3 [33]
Totals	13.8 [34]	0	29.9 [74]	2.0 [5]	10.9 [27]	5.7 [14]	36.0 [89]	98.3 [243]

Source: Powertech 2012a

**Table 4.6-5 Significance of Ecological Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

**Table 4.6-5. Significance of Ecological Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	SMALL for vegetation, terrestrial, and aquatic species	MODERATE for vegetation, small- to medium-sized mammals, raptors, waterfowl and shorebirds, upland game birds, nongame and migratory birds, and reptiles  SMALL for big game, aquatic species, amphibians	SMALL to MODERATE for vegetation, terrestrial, and aquatic species
Operations	SMALL for vegetation, terrestrial, and aquatic species	MODERATE for vegetation, small- to medium-sized mammals, raptors, waterfowl and shorebirds, upland game birds, nongame and migratory birds, and reptiles  SMALL for big game, aquatic species, amphibians	SMALL to MODERATE for vegetation, terrestrial, and aquatic species
Aquifer Restoration	SMALL for vegetation, terrestrial, and aquatic species	MODERATE for vegetation, small- to medium-sized mammals, raptors, waterfowl and shorebirds, upland game birds, nongame and migratory birds, and reptiles  SMALL for big game, aquatic species, amphibians	SMALL to MODERATE for vegetation, terrestrial, and aquatic species

**Table 4.6-5. Significance of Ecological Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project (continued)**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Decommissioning	MODERATE before vegetation is reestablished  SMALL after vegetation is reestablished	MODERATE before vegetation is reestablished  SMALL after vegetation is reestablished	MODERATE before vegetation is reestablished  SMALL after vegetation is reestablished

\*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well disposal and land application disposal options.

#### 4.7 Air Quality Impacts

##### 4.7.1 Proposed Action (Alternative 1)

##### 4.7.1.1 Disposal Via Class V Injection Wells

##### 4.7.1.1.1 Construction Impacts

##### 4.7.1.1.2 Operations Impacts

##### 4.7.1.1.3 Aquifer Restoration Impacts

##### 4.7.1.1.4 Decommissioning Impacts



Table 4.7-2 Significance of the Air Quality Environmental Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

**Table 4.7-2. Significance of the Air Quality Environmental Impacts for the Proposed Liquid Waste Disposal Options for Each Phase\* of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application</b>
Construction	SMALL to MODERATE	SMALL to MODERATE	SMALL to MODERATE
Operations	SMALL to MODERATE	SMALL to MODERATE	SMALL to MODERATE
Aquifer Restoration	SMALL to MODERATE	SMALL to MODERATE	SMALL to MODERATE
Decommissioning	SMALL to MODERATE	SMALL to MODERATE	SMALL to MODERATE

\*The peak year (i.e., when all four phases occur simultaneous) impacts would also range between SMALL to MODERATE.

#### 4.8 Noise Impacts

##### 4.8.1 Proposed Action (Alternative 1)

##### 4.8.1.1 Disposal Via Class V Injection Wells

##### 4.8.1.1.1 Construction Impacts

##### 4.8.1.1.2 Operations Impacts

##### 4.8.1.1.3 Aquifer Restoration Impacts

##### 4.8.1.1.4 Decommissioning Impacts

Table 4.8-1 Significance of Environmental Noise Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

**Table 4.8-1. Significance of Environmental Noise Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	<b>Class V Injection Wells</b>	<b>Land Application</b>	<b>Combined Class V Injection Wells and Land Application*</b>
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL	SMALL	SMALL

\*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.

#### 4.9 Historic and Cultural Resources Impacts

##### 4.9.1 Proposed Action (Alternative 1)

##### 4.9.1.1 Disposal Via Class V Injection Wells

##### 4.9.1.1.1 Construction Impacts

##### 4.9.1.1.2 Operations Impacts

##### 4.9.1.1.3 Aquifer Restoration Impacts

##### 4.9.1.1.4 Decommissioning Impacts

Table 4.9-1 Historic Properties Within or Adjacent to the APE That Are Currently Listed in NRHP or Sites Recommended As Eligible for Listing in the NRHP

**Table 4.9-1. Historic Properties Within or Adjacent to the APE That Are Currently Listed in NRHP or Sites Recommended as Eligible for Listing in the NRHP**

Historic Property (Site Number, Structure Identification, or Historic District)	Description	Currently Listed on the NRHP or Eligible for Listing on NRHP	Evaluation Criteria— Determination of Eligibility for Listing in NRHP Under Criteria A, B, C, or D	Impact Analysis
39CU3592	Native American artifact scatter and hearth site	Eligible	D	Site is located within a proposed wellfield area south of the Dewey satellite facility. Site will need to be fenced off to ensure avoidance.
Log Barn (Structure CU02500002)	Log barn was found eligible for listing on NRHP in April 2012 under Criteria A.	Eligible	A	Site is located approximately 75 m [250 ft] south of land application areas. The site will be fenced off to ensure avoidance. No adverse visual impacts are anticipated.

**Table 4.9-1. Historic Properties Within or Adjacent to the APE That Are Currently Listed in NRHP or Sites Recommended as Eligible for Listing in the NRHP (continued)**

Historic Property (Site Number, Structure Identification, or Historic District)	Description	Currently Listed on the NRHP or Eligible for Listing on NRHP	Evaluation Criteria— Determination of Eligibility for Listing in NRHP Under Criteria A, B, C, or D	Impact Analysis
39CU577	Native American/ Euroamerican/ Occupation site; artifact scatter	Eligible	D	Site will be avoided; no impact anticipated.
39CU2735	Archaic- Prehistoric occupation site	Eligible	D	Site will be avoided; no impact anticipated.
39CU578	Euroamerican/ Native American Historic dump and occupation site located on a ridge slope	Eligible	D	Site will be avoided; no impact anticipated.
39CU586	Native American and Late Archaic occupation site on a ridge crest	Eligible	D	Site will be avoided; no impact anticipated.
39CU588	Native American occupation site on a ridge crest	Eligible	D	Site will be avoided; no impact anticipated.
39CU2733	Native American hearth and artifact scatter on a ridge slope	Eligible	D	Site will be avoided; no impact anticipated.

**Table 4.9-1. Historic Properties Within or Adjacent to the APE That Are Currently Listed in NRHP or Sites Recommended as Eligible for Listing in the NRHP (continued)**

<b>Historic Property (Site Number, Structure Identification, or Historic District)</b>	<b>Description</b>	<b>Currently Listed on the NRHP or Eligible for Listing on NRHP</b>	<b>Evaluation Criteria— Determination of Eligibility for listing in NRHP Under Criteria A, B, C, or D</b>	<b>Impact Analysis</b>
39CU2738	Native American occupation site on a ridge crest	Eligible	D	Site will be avoided; no impact anticipated.
39CU590	Native American artifact scatter on a ridge saddle	Eligible	D	Site will be avoided; no impact anticipated.
39CU593	Native American and Euroamerican occupation and artifact scatter on a hillside	Eligible	D	Site will be avoided; no impact anticipated.
39FA1941	Native American artifact scatter and hearth site	Eligible	D	Site is located approximately 91 m (300 ft) east of the proposed Burdock central processing plant and is within a proposed wellfield area.
39CU2000	Historic Railroad	Eligible	A and C	Site crosses proposed wellfield areas; however, no portion of the site will be adversely impacted.
39FA2000	Historic Railroad	Eligible	A and C	Site crosses proposed wellfield areas; however, no portion of the site will be adversely impacted.

**Table 4.9-1. Historic Properties Within or Adjacent to the APE That Are Currently Listed in NRHP or Sites Recommended as Eligible for Listing in the NRHP (continued)**

Historic Property (Site Number, Structure Identification, or Historic District)	Description	Currently Listed on the NRHP or Eligible for Listing on NRHP	Evaluation Criteria— Determination of Eligibility for listing in NRHP Under Criteria A, B, C, or D	Impact Analysis
Historic District 90000949- Edna and Ernest Young Ranch	This historic district covers 52.6 ha [130 ac] and is located approximately 4.8 km [3 mi] south of Dewey and south of Beaver Creek. The area of significance is exploration/settlement during 1900–1924 and 1925–1949. There are 13 contributing buildings, one contributing structure, and one non-contributing structure.	Listed in the NRHP in 1990	A	National Register Historic District will be avoided; no impact anticipated. No adverse visual impacts are anticipated.
Bakewell Ranch (Structure CU00000050)	The Bakewell Ranch is located within the Edna and Ernest Young Ranch National Register Historic District.	Listed on the NRHP	A	Historic property will be avoided; no impact anticipated. No adverse visual impacts are anticipated.

**Table 4.9-2 Burial, Cairn, and Other Sites Within or Adjacent to APE**

**Table 4.9-2. Burial, Cairn, and Other Sites Within or Adjacent to APE**

Site Number	Description	Eligibility Designation	Evaluation Criteria— Determination of Eligibility for Listing in NRHP Under Criteria A, B, C, or D	Impact Analysis
39CU271	Native American and Archaic artifact scatter and occupation site on a ridge slope with a cairn feature	Eligible	D	Site is located approximately 61 m [200 ft] east of proposed wellfield areas; site will be avoided.
39CU584	Native American occupation site and burial (affiliation unknown) on a ridge slope	Eligible	D	Site will be avoided; no impact anticipated.
39FA1902	Historic site with Euroamerican burial	Unevaluated		Euroamerican burial site is located approximately 152 m [500 ft] west of the proposed Burdock central processing plant. The site will be protected by a buffer zone and fencing.

**Table 4.9-2. Burial, Cairn, and Other Sites Within or Adjacent to APE (continued)**

Site Number	Description	Eligibility Designation	Evaluation Criteria—Determination of Eligibility for Listing in NRHP Under Criteria A, B, C, or D	Impact Analysis
39CU3584	Cairn site	Not Eligible		Site is located in an area of potential impacts within land application areas. The site will be protected by a buffer zone and fencing.
39CU3587	Two historic Euroamerican burials	Unevaluated		Site will be avoided; no impact anticipated.
39CU530	Cairn site	Unevaluated		Site will be avoided; no impact anticipated.
39CU3564	Cairn site	Unevaluated		Site will be avoided; no impact anticipated.
39CU3620	Cairn site	Unevaluated		Site will be avoided; no impact anticipated.
39FA1862	Cairn site with stone circles	Unevaluated		Site will be avoided; no impact anticipated.
39FA1863	Cairn site with stone circles	Unevaluated		Site will be avoided; no impact anticipated.
39FA1881	Cairn site	Unevaluated		Site will be avoided; no impact anticipated.
39FA1890	Cairn site	Unevaluated		Site will be avoided; no impact anticipated.
39FA1927	Cairn site	Unevaluated		Site will be avoided; no impact anticipated.

**Table 4.9-3 List of Unevaluated Sites Within 76 m [250 ft] of Project Activity Areas**

**Table 4.9-3. List of Unevaluated Sites Within 76 m [250 ft] of Project Activity Areas**

Unevaluated Site	Location
39FA778	This historic farmstead is located within the proposed Burdock central processing plant footprint. Site will undergo further evaluative testing. Until testing is completed, avoidance of the site is recommended.
Areas 1, 6, and 8 at 39FA96	Areas 1, 6, and 8 at site 39FA96 are located within a proposed wellfield area. Until testing at Area 8 is completed, avoidance of the site is recommended. Until tribes review Areas 1 and 6, avoidance is recommended.
39CU3624	Site 39CU3624 is located south of Pass Creek less than 30.5 m [100 ft] north of a proposed wellfield area.
39FA1920	Site 39FA1920 is located at the southeast corner of the APE approximately 30.5 m [100 ft] south of a proposed wellfield area.

**Table 4.9-4 Significance of Historic and Cultural Resources Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

**Table 4.9-4. Significance of Historic and Cultural Resources Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project**

	Class V Injection Wells	Land Application	Combined Class V Injection Wells and Land Application*
Construction	SMALL to LARGE	SMALL to LARGE	SMALL to LARGE
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL	SMALL	SMALL

\* Significance of impacts on historic and cultural resources for the combined disposal option is bounded by the significance of impacts on historic and cultural resources for the Class V injection well and land application disposal options.

#### 4.10 Visual and Scenic Resources Impacts

##### 4.10.1 Proposed Action (Alternative 1)

##### 4.10.1.1 Disposal Via Class V Injection Wells

##### 4.10.1.1.1 Construction Impacts

##### 4.10.1.1.2 Operations Impacts

##### 4.10.1.1.3 Aquifer Restoration Impacts

##### 4.10.1.1.4 Decommissioning Impacts

Table 4.10-1 Significance of Visual and Scenic Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

Table 4.10-1. Significance of Visual and Scenic Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

	Class V Injection Wells	Land Application	Combined Class V Injection Wells and Land Application*
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL	SMALL	SMALL
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.11 Socioeconomics Impacts

#### 4.12 Environmental Justice Impacts

#### 4.13 Public and Occupational Health and Safety Impacts

Table 4.13-2 Significance of Occupational and Public Health and Safety Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

Table 4.13-2. Significance of Occupational and Public Health and Safety Impacts for the Proposed Liquid Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

	Class V Injection Wells	Land Application	Combined Class V Injection Wells and Land Application*
Construction			
Radiological	SMALL	SMALL	SMALL
Nonradiological	SMALL	SMALL	SMALL
Operations			
Radiological (Normal Operations)	SMALL	SMALL	SMALL
Radiological (Accidents)	SMALL	SMALL	SMALL
Nonradiological (Normal Operations)	SMALL	SMALL	SMALL
Nonradiological (Accidents)	SMALL	SMALL	SMALL
Aquifer Restoration			
Radiological	SMALL	SMALL	SMALL
Nonradiological	SMALL	SMALL	SMALL
Decommissioning			
Radiological	SMALL	SMALL	SMALL
Nonradiological	SMALL	SMALL	SMALL
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the Class V injection well and land application disposal options.			

#### 4.14 Waste Management Impacts

##### 4.14.1 Proposed Action (Alternative 1)

##### 4.14.1.1 Disposal Via Class V Injection Wells

##### 4.14.1.1.1 Construction Impacts

##### 4.14.1.1.2 Operations Impacts

##### 4.14.1.1.3 Aquifer Restoration Impacts

##### 4.14.1.1.4 Decommissioning Impacts

Table 4.14-1 Significance of Environmental Impacts on Liquid Waste Management for the Proposed Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

Table 4.14-1. Significance of Environmental Impacts on Liquid Waste Management for the Proposed Waste Disposal Options for Each Phase of the Proposed Dewey-Burdock ISR Project

	Class V Injection Wells	Land Application	Combined Class V Injection Wells and Land Application*
Construction	SMALL	SMALL	SMALL
Operations	SMALL	SMALL	SMALL
Aquifer Restoration	SMALL	SMALL	SMALL
Decommissioning	SMALL, MODERATE depending on future status of local landfills	SMALL, MODERATE depending on future status of local landfills	SMALL, MODERATE depending on future status of local landfills
*Significance of environmental impact for the combined disposal option is bounded by the significance of environmental impacts for the deep Class V injection well disposal and land application disposal options.			